

## Electronic Procedures for Medical Operations, Phase II

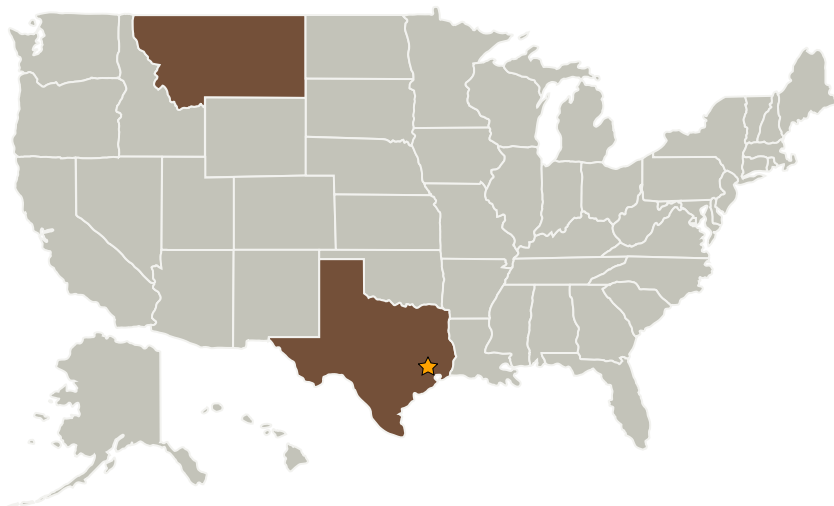
Completed Technology Project (2009 - 2011)



## Project Introduction

Electronic procedures are currently being used to document the steps in performing medical operations for the Space Shuttle and/or the International Space Station (ISS). Capturing the data electronically makes it easier to manage, modify and query the contents of the procedures. For the ISS, NASA is currently transitioning to electronic procedures based on the eXtensible Markup Language (XML) standard. Modeling procedures electronically using XML has a number of benefits. Procedures can be quickly and effectively searched to determine which procedures are affected by software and hardware changes. Procedures are more easily shared by other computer-based systems. And procedure execution aids become possible, such as real time data capture and automatic book marking of the current procedure step. Such procedure models will be an important component of an integrated Medical Decision Support needed for future exploration missions. The primary purpose of this project is to continue to research and develop a Procedure Representation Language (PRL) and support tools that will benefit the creation, maintenance, and use of the medical procedures, and to develop them in such a way that new advances can be easily inserted, eventually leading to the Medical Decision Support system.

## Primary U.S. Work Locations and Key Partners



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## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission  
Directorate (STMD)

### Lead Center / Facility:

Johnson Space Center (JSC)

### Responsible Program:

Small Business Innovation  
Research/Small Business Tech  
Transfer

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Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
S&K Aerospace, Inc.	Supporting Organization	Industry Small Disadvantaged Business (SDB)	St Ignatius, Montana

## Primary U.S. Work Locations

Montana	Texas
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## Project Transitions

**February 2009:** Project Start**February 2011:** Closed out

## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

## Technology Areas

**Primary:**

- TX06 Human Health, Life Support, and Habitation Systems
  - └ TX06.3 Human Health and Performance
    - └ TX06.3.7 System Transformative Health and Performance Concepts